

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Radiation Chemistry
Course number	AMSR2258
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1	- he student will become familiar with venipuncture, contrast media use and interactions, sterile technique, history taking and basic pharmacology.
2	- Review the contrast media in radiology and imaging
3	- Understand the Intravenous Radiographic Contrast
4	- Give a simple Guide to the Basics of Contrast Media

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> * Contrast media preparation * Types of Contrast Media in Radiology Department * Contrast media and adverse reaction, imaging protocols, and appreciation of radiation dose factors will also be addressed
Professional Skills	<ul style="list-style-type: none"> * Adverse Effects of Contrast Media
General Skill	<ul style="list-style-type: none"> * Safety standards for contrast media injection

Course Contents

1	- Types of Contrast Media
2	- Mechanism of Contrast media; absorption and excretion
3	- Techniques applied for contrast media
4	- Contrast media safety preparation
5	- Radio pharmaceutical contrast media
6	- Nuclear medicine contrast media
7	- Anatomical parts imaging and contrast media

Teaching and Learning Methods

1	- Power point lectures
2	- Lecture notes
3	- seminars

Teaching and Learning Methods for the Disabled Students

1 - electronic lectures

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
homewroks and attendance	all over the semester	30
midterm exam	the seventh week	30
final exam	at the end of the semester	40

Books and References

Course note	Contrast Media: types and adverse effect handbook on contrast media
Essential books	Radiographic Contrast Media, Maddox (2002) Am Fam Physician 66(7):1229-34

Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
history of contrast media types of x-ray contrast media types of MRI contrast media. types of US contrast media physical properties of CM side effect of contrast media general consideration of patient selection and preparation contrast nephrotoxicity metformin and uptake of contrast media contrast media for children contrast media for pregnant treatment of the sideeffect of contrast media	14 weeks				